NATIONAL COMMUNICABLE DISEASE CENTER

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EPIDEMIOLOGIC NOTES AND REPORTS SALMONELLOSIS DUE TO IMPORTED BEEF - Moryland

An outbreak of salmonellosis occurred among approximately 100 persons attending a wedding reception in Wheaton, Maryland, on June 14, 1969. Thirty-three of 68 persons contacted reported onset of symptoms including diarrhea (70 percent), abdominal cramps (61 percent), nausea (48 percent), fever (48 percent), and vomiting (30 percent), 5 to 58 hours after the reception (mean 18 hours; median 16 hours). Stool specimens were obtained from two of 11 persons who contacted their physicians: one specimen was positive for Salmonella welikada.

Food specific attack rates implicated cooked beef as the vehicle of infection (Table 1). Samples of beef obtained from garbage cans at the site of the wedding reception. from the homes of several wedding guests, and

Epidemiologic Notes and Reports Salmonellosis Due to Imported Be Murine Typhus - Texas International Notes

from unopened, packed roasts were all positive for S. welikada and had high coliform counts.

The beef was imported on June 3 and processed by a firm in New York City, shipped to a distributor in Washington. D.C., on June 6, and delivered to a caterer on June 13. At the caterer's, it was refrigerated overnight and then sliced on Saturday morning. June 14. The caterer took it to the wedding reception, where it was served at (Continued on page 286)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative tatals include revised and deloyed reports through previous weeks)

(Committee totals include fevised one deloyed reports infough previous weeks)												
	33rd WEE	K ENDED	MEDIAN	CUMULATIVE, FIRST 33 WEEKS								
DISEASE	August 16, 1969	August 17, 1968	1964 - 1968	1969	1968	MEDIAN 1964 - 1968						
Aseptic meningitis Brucellosis Diphtheria Encephalitis, primary:	2	202 5 2	107 7 4	1,428 115 94	1,790 132 103	1,327 155 103						
Arthropod-borne & unspecified	8 116	56 8 103 948	45 8 643	668 221 3,337	652 343 2,694	1,000 550 25,367						
Malaria	51 185	48 48 2 26 26	15 665 26	29,434 1,726 19,861 2,272	27,770 1,346 19,180 1,895	218 187,674 1,895						
Civilian Military Mumps	29	26 — 822		2,070 202 66,478	1,720 175 122,773							
Poliomyelitis, total Paralytic Rubella (German measles)	_ 336	- - 321	1 1	9 8 48,035	38 38 42,826	38 38						
Streptococcal sore throat & scarlet fever Tetanus Tularemia	5 2	4,35 1 3 3	4,079 7 5	290,216 92 90	287,963 92 126	287,963 138 126						
Typhoid fever Typhus, tick-borne (Rky. Mt. spotted fever). Rabies in animals	16	9 32 54	8 14 81	178 325 2,302	204 196 2,327	250 189 2,902						

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Botulism: Leptospirosis: N.C1, N.Y. Ups1, S.C1 Plague:	11 42 3	Rabies in man: Rubella congenital syndrome: Trichinosis: N.Y. Ups1 Typhus, murine: Ohio-1 Poliomyelitis, non-paralytic:	6 154 32

*Delayed reports: Trichinosis: Me. 1

Typhus, murine: Ohio delete 1 Poliomyelitis, non-paralytic: Me. 1 SALMONELLOSIS - (Continued from front page)

Table 1
Faad History Data from Persons at Wedding Reception, Wheaton, Maryland, June 14, 1969

12 1		Persons Wh	Group A to Ate Specif	ied Food	Group B Persons Who Did Not Eat Specified Food					
Food	111	Not Ill	Total	Attack Rate (Percent)	HI	Not 111	Total	Attack Rate (Percent)		
Turkey	20	20	40	50	13	15	28	46		
Meat Balls	10	13	23	1.1	23	22	45	51		
Potato Salad	21	21	42	50	12	14	26	46		
Colesiaw	8	10	18	44	25	25	50	50		
Roast Beef	32	15	47	68	1	20	21	5		

a buffet from 6:20 to 11:15 p.m. Approximately 50 percent of the beef was not consumed and was given to wedding gnests.

The New York firm had shipped smaller amounts of the beef to Virginia, Ohio, and Florida. These state health departments were notified, but, to date, no further isolations of *S. welikada* have been reported. Other control measures included the following: The Washington, D.C., food distributor voluntarily withheld the rest of the shipment from the market. The foreign review staff of the U.S. Department of Agriculture (USDA) was notified, and, in turn, notified the exporting country of the contaminated beef. The food processing procedure in New York was reviewed, microbiological samples were collected on June 27, and production was stopped for 1 week, while new processing methods were developed based on laboratory findings. Previously processed beef was reprocessed before release.

(Reported by Steven Lipson, M.D., Chief of Epidemiology, and James Robb, Jr., and H. Clayton Ervine, Environmental Health Services, Montgomery County Health Department; Harold J. Garber, M.D., Chief, Division of Communicable Diseases, and Edwin Swecker, Bacteriologist, Bureau of Laboratories, Maryland State Department of

Health: John E. Spaulding, D.V.M., Head, Toxicology Group, Technical Services Division, U.S. Department of Agriculture: Kenneth R. Lennington, Office of Associate Commissioner for Compliance, U.S. Food and Drug Administration; and an EIS Officer.)

Editorial Comment:

Salmonella outbreaks due to contaminated imported meats are infrequently reported in the United States. The beef in this outbreak was probably contaminated prior to entry into this country in view of the fact that since the institution of the current salmonella surveillance program at the NCDC in 1962, isolations of 8, welikada have not been reported from human or nonhuman sources in the United States. On the other hand, 8, welikada is periodically isolated from the country from which the beef was imported.

It is likely that other human cases of salmonellosis were associated with the consumption of this contaminated beef, but since only approximately one out of 100 clinical cases of salmonellosis is seen by a physician and has a stool culture taken, it is not surprising that other cases have not been reported to NCDC.

The USDA has initiated procedures which should minimize the chances of recurrences of similar outbreaks.

MURINE TYPHUS - Texas

From January through July 1969, 24 cases of murine typhus were reported from Texas (Table 2); for the comparable period in 1968, 9 cases were reported from Texas. The patients' symptoms included headache, fever, malaise, and weakness, and influenza was often considered in the differential diagnosis. The patients' sera showed titers to Proteus ON19 and the complement fixation test confirmed murine typhus. The patients ranged in age from 2 to 72 years (median 19 years; mean 24.5 years), and there were twice as many cases in females as in males (Table 3). Therapy with erythromycin in one case and tetracyline in all others resulted in complete recovery.

Most cases occurred in the Corpus Christi area or in the lower Rio Grande Valley (Table 4). Murine typhus is endemic in southern Texas and is apparently carried by the field rat. Most of the patients gave a history of flea

Table 2
Cases of Murine Typhus by Manth of Onset
Texas — January-June 1969

Cases	Month
3	January
1	February
2	March
3	April
ť	May
9	June

bites but denied contact with rats, although rats had been seen in the vicinity of their homes. Several patients admitted to being bitten by fleas from their pet cats, suggesting that house pets may be involved in the transmission of the disease to man.

Table 3 Cases of Murine Typhus by Age and Sex Texas — January-July 1969

Age Group (Years)	Male	Female
<1-5	0	1
6-10	4	2
11-15	1	2
16-20	1	2
21-40	1	5
540	1	4
Total	8	16

(Reported by James E. Peavy, M.D., M.P.H., Commissianer of Health, M.S. Dickersan, M.D., Chief, Cammuni-

Table 3

Cases of Murine Typhus by Caunty

Texas — January-July 1969

Cases	Counties
6	Nueces
11	Hidalgo
4	Cameron
1	Bell
1	Jim Hogg
1	Brooks

cable Disease Services, and J.V. Irans, D.Sc., Directar, and Kinch C. Knolle, Serology Divisian, Laboratories, Texas State Department of Health; and an EIS Officer.)

INTERNATIONAL NOTES MALARIA - Ceylon*

The recurrence of malaria in Ceylon, noted in the first months of 1968 (MMWR, Vol. 17, Nos. 11 and 16), continued throughout 1968 and extended into 1969. A total of 425,937 cases were reported during 1968 and 195,107 cases were reported for the first 3 months of 1969. Mortality has been low. Of the microscopically positive cases in the first quarter of 1969, 194,845 were due to *Plasmodium vivax*, 175 were due to *P. falciparum*, 2 were due to *P. malariae*, and 85 were mixed infections of *P. vivax* and *P. falciparum*.

The factors leading to the present epidemic appear to be: (1) the increasing occurrence from 1964 to 1967 of P. vivax infections in areas of high transmission potential which developed due to the lack of control resources; (2) the abnormally low rainfall in the early months of 1968 which caused pooling in river beds, thus producing many ideal breeding sites for Anopheles culicifacies mosquitoes; (3) population movements associated with land development, gem mining, and pilgrimages in areas of high transmission potential; and (4) the absence of immunity after years of freedom from infection during the eradication efforts between 1945 and 1963.

*Source: World Health Organization Weekly Epidemiological Record. 44(32):489, August 8, 1969.

DENGUE - Puerto Rico

The epidemic of dengue in Puerto Rico in continuing with 714 cases reported for the week ending August 16 (MMWR, Vol. 18, Nos. 27-30). For the weeks ending July 26, August 2, and August 9, totals of 1,485 cases, 1,676 cases, and 1,758 cases, respectively, were reported.

Over 500 cases of dengue-like illness have been observed in four areas selected for intensive surveillance to evaluate the effect of aerial spraying (Figure 1, page 292). In Cortes, ultralow volume Malathion* spraying was initiated during a period of high incidence and was followed by a decrease in cases. In Buenavista and Parcela 400, where spraying was started later in the epidemic, the observed continuing reduction in cases may be unrelated to spraying. Although Maria Jimenez was not sprayed, Aedes aegypti mosquito indices as well as case rates were lower than in the other three areas during the entire study period. The overall attack rates for the

9 weeks of study in Buenavista and Cortes (22 cases per 100 population and 26 cases per 100 population) are lower than the attack rate in Parcela 400 (45 cases per 100 population), suggesting that spraying may have interrupted the further progress of the epidemic in these two areas.

(Reparted by Dr. Ernesta Colan-Yardan, Secretary af Health, Dr. Rapheal Carrea-Caronas, Auxiliary Secretary af Health far Preventive Medicine, Dr. Luis Mainardi, Chief, Cammunicable Disease Cantral Program, and Dr. Angel Alberta Calan, Director, Institute af Labarataries af Health, Puerta Rica Department af Health; and a team from NCDC.)

^{*}Trade names are provided for identification only, and inclusion does not imply endorsement by the Public Health Service or the United States Department of Health, Education, and Welfare.

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED AUGUST 16, 1969 AND AUGUST 17, 1968 (33rd WEEK)

				ENCEPHALITIS HEPATITIS									
	ASEPTIC MENIN-	BRUCEL-	DIPHTHERIA		including	Post-				MALA	RTA		
AREA	GITIS	LOSIS			cases	Infectious	Serum	Infec	tious	10100			
	1969	1969	1969	1969	1968	1969	1969	1969	1968	1969	Cum. 1969		
UNITED STATES	142	2	4	26	56	В	116	855	948	51	1,726		
NEW ENGLAND	_	_		1	2	1 –	1 _	91	82 5	1 _	62		
Maine * New Hampshire	_	_	-	_	_	_	_	5	2		4 2		
Vermont	-	_	_	_	_	-	_	1	_	_	_		
Massachusetts	-	-	-	-	-	-	-	55	36	1	42		
Rhode Island	-	-	-	1	2	_	1	20	29	-	3		
Connecticut	-	-] -	-	-	1	_	10	10	-	11		
MIDDLE ATLANTIC	43	_	_	3	14	3	34	146	140	10	200		
New York City	2	_	_	1	-	-	22	59	58	1	17		
New York, up-State.	10	-	-	1		2	1	31	26	2	31		
New Jersey * Pennsylvania	5 26	_	_	1 _	11	_ 1	7	19 37	23 33	5 2	80 72		
remasy ivania		_	_	_	_	' '	4	٠,٠	, , ,	-	82		
EAST NORTH CENTRAL	15	_	-	9	21	2	12	132	140	4	171		
Ohio	1	-	-	5	18	-	3	32	53	-	17		
Indiana	3	-	-	1	_	1	-	2	8	1	15		
Illinois	2	_	_	3	2	1 _	9	32 60	31 36	3	101 37		
Wisconsin	_	_	<u>-</u>		1	_	_	6	12	_	1		
WEST NORTH CENTRAL	22	2	_	4	-	2	2	31	58	4	115		
Minnesota	17		-	-	-	1	-	2	30	-	7		
Iowa Missouri	_ 2	1	_	1	_	1 _	_	6	6 13	2	9 31		
North Dakota	_	1	_		_	_	_		1	_	3		
South Dakota	-	_	_	-	_		_	7	1	-	-		
Nebraska	2	-	-		-	-	_	1	2	-	3		
Kansas	1	-	-	2	-	-	2	6	5	2 .	62		
SOUTH ATLANTIC	20	_	1 1	2	2	_	6	59	104	4	484		
Delaware	_	_		_	_		_	2	3	1	3		
Maryland	11	-	-	-	-	_ :	1	13	15	3	26		
Dist. of Columbia	-	-	-	-	-	-	2	- -	-	-	1		
Virginia West Virginia	2	_		_ 1				6 7	7 6	_	16		
North Carolina	_	_	1		_	_	_	2	3		223		
South Carolina	3	_	i –	-	-		-	10	3	-	42		
Georgia		-	-	-	-	- 1	-	. 1	27	-	146		
Florida	4	-	_	1	2	-	3	18	40	-	25		
EAST SOUTH CENTRAL	8	_	_	3	3	_	4	48	56		67		
Kentucky	-	_	-		_	-	_	9	21		54		
Tennessee	6	-	-	1	3	-	1	19	19	-	-		
Alabama	1	-	_	1	-	-	3	1	1	-	11		
Mississippi	1	-	-	1	_	-	-	19	15	-	2		
WEST SOUTH CENTRAL	18	-	3	-	4	_	6	72	56	11	96		
Arkansas	-	-	-	-	2	-	-	-	3	-	8		
Louisiana*	2	_	-	-	2	-	2	19	16	3	36		
Oklahoma Texas*	6 10	_	3	_	_	_	_ 4	49	36	7	37 15		
20.000111111111111111111111111111111111	117						4	7/	30		, ,		
MOUNTAIN	1	-	-	-	_	-	-	52	40	2	121		
Montana		-	-	-	-	-	-	- 1	3	-	3		
Idaho	1	_	_	_	-	_	-	1	5	_	3		
Wyoming	_	_	_	_	_		_	16	_	2	102		
New Mexico	_	_	_	_	_	-	_	4	4	_	7		
Arizona	-	-	-	-	-	-	-	22	20	-	1		
Utah	-	-	-	-	-	-	-	5	8	-	1		
Nevada	-	-	_	-	_	-	-	3	_	-	4		
PACIFIC	1.5	_	_	4	10	_	51	224	272	15	410		
Washington	3	_	-	1	1	_	_	13	25	-	5		
Oregon	-	-	-		_	-	1	17	18	1	9		
California	11	-	_	2	9	-	50	188	226	14	312 2		
Alaska Hawaii	1	_	_		_	_	_	5	3	_	82		
Puerto Rico	-	_	-	-	-	-	_	43	33		2		

*Delayed reports: Nepatitis, infectious: Me. 4, Tex. delete 1 "alaria: N.J. delete 1, La. delete 1

TABLE III. CASES OE SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

EOR WEEKS ENDED

AUGUST 16, 1969 AND AUGUST 17, 1968 (33rd WEEK) - CONTINUED

	MEAS	SLES (Rube	ola)	MENINGOO	OCCAL INF	ECTIONS,	MUMPS	IS	RUBELLA		
AREA		Cumu 1	ative		Cumul	ative		Total	Paral	lytic	
-	1969	1969	1968	1969	1969	1968	1969	1969	1969	Cum. 1969	1969
UNITED STATES	185	19,861	19,180	29	2,272	1,895	588	_	-	8	336
MELL ENGLAND	9	1 092	1,139	1	80	101	102			1	27
NEW ENGLAND	-	1,082	37		6	6	103 4	_	_	_	27 1
New Hampshire	••	238	141	-	2	7	4	-	-	-	-
Vermont Massachusetts*	_	3 208	2 354	_	33	1 48	23 22	_	_	_	7
Rhode Island	1	23	5	1	9	8	12	-	-	-	6
Connecticut	8	603	600	-	30	31	38	-	-	1	13
MIDDLE ATLANTIC	55	7,397	3,899	11	371	341	71	_	_	_	34
New York City	18 5	4,862 591	1,994	- 5	73 66	69 59	65 NN	_	-	_	11 20
New York, Up-State. New Jersey	12	873	1,210 585	1	150	122	6	_	_	_	1
Pennsylvania	20	1,071	110	5	82	91	NN	-	-	-	2
EAST NORTH CENTRAL	40	2,099	3,706	5	312	227	141	_	_	_	95
Ohio	6	367	289	1	117	62	8	-	-	-	6
IndianaIllinois	- 16	465 4 7 9	653 1,356	3	34 44	27 51	32 18	-	_	_	6 6
Michigan	8	238	260	1	95	67	38		_	_	49
Wisconsin	10	550	1,148	-	22	20	45	- :	-	-	28
WEST NORTH CENTRAL	_	511	378	_	116	101	4	_	_	1	6
Minnesota	-	5	16	-	25	24	2	-	-	_	-
Iowa Missouri	-	328 22	96 8 1	_	15 51	6 32	1	-	_	_	4
North Dakota	_	11	131	_	-	3	_ '	_	_	_	i
South Dakota	-	3	4	-	1	5	NN	_	-	-	~
Nebraska Kansas	_	135	40 10	_	9 1 5	6 25	_	_	_	1	
Railsas	_	′ ¦	10	_	15	23	_	_	-	<u>'</u>	_
SOUTH ATLANTIC	26	2,459	1,476	-	395	385	50	-	-	1	19
Delaware Maryland	9	373 74	15 94	_	8 36	8 28	5 5	_	_	_	4
Dist. of Columbia	-	-	6	-	9	14	-	-	_	-	1
Virginia West Virginia	- 6	882 185	293 280	_	49 18	3 1 10	13 21	_	_	_	9
North Carolina	5	313	281	_	66	76	NN	_	_	_	_
South Carolina	-	112	12	-	55	56	4	-	-	-	-
Georgia Florida	- 6	519	4 491	_	69 85	73 89	2	_	_	1	5
EAST SOUTH CENTRAL Kentucky.*	1 1	107 63	487 99	1 –	140 49	162 65	42 6			1 _	27
Tennessee		17	61	1	53	52	24	_	_	-	2Ŭ
Alabama	-	4	93	-	?3	24	11	-	-	1	1 1
Mississippi	-	23	234	-	15	21	1	_	_	_	1 1
WEST SOUTH CENTRAL	33	4,390	4,687	6	306	300	42	-	-	4	38
Arkansas Louisiana	_	16 120	2 11	- 1	29 80	20 85	_	_	_	_	-
Oklahoma	-	136	111	_	29	49	-	-	-	-	-
Texas	33	4,118	4,563	5	168	146	42	-	-	4	38
MOUNTAIN	17	818	968	_	44	29	46	-	_	_	33
Montana	-	16	58	-	9	3	5	-	-	-	-
Idaho	_	89	20 51	_	8 _	11	_	_	_	_	_
Colorado	-	136	498	-	7	1 บ	4	-	_	_	8
New Mexico	- 17	241 327	96 219	_	6 10	_ 1	11 20	_	_	_	า 2บ
Arizona	-	8	219	_	2	1	6	_	_	_	4
Nevada	-	1	5	-	2	3	-	-	-	-	-
PACIFIC	4	998	2,440	5	508	249	89	_	_	_	57
Washington	1	59	515	1	54	37	9	-	-	_	3
Oregon	3	198 698	496	1 3	15 418	19 180	53	_	_	_	3 34
California Alaska	- '	698 8	1,392	-	11	2	5	_	_	_	34
Hawaii	-	35	35	_	10	11	19			_	14
Puerto Rico	43	1,404	388	2	19	19	25	_	_	_	15

*Delayed reports: Measles: Mass. delete 1 Mumps: Me. 2

Mumps: Me. 2 Ruhella: Me. 9, Ky. delete 6

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

AUGUST 16, 1969 AND AUGUST 17, 1968 (33rd WEEK) - CONTINUED

	AUGUST 10, 1909 AND AUGUST 17, 1908 (3514 WEEK) - CONTINUED										
AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TET	ANUS	TUL	AREMIA	TYP: FEV		TICK	S FEVER -BORNE . Spotted)		IES IN IMALS
	1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969
UNITED STATES	4,355	5	92	2	90	6	178	16	325	53	2,302
NEW ENGLAND	578	-	_	-	14	1	7	-	-	1	18
Maine.* New Hampshire	4 30	-	-	_	_	_	1 _	_	_	1 _	6
Vermont	41	_	_	_	14	_	_	_	_	_	2
Massachusetts	59	-	-	-	-	-	4	-	-	-	1
Rhode Island Connecticut	71 373	_	_	- -	_	1	1 1	-	_	_	5
MIDDLE ATLANTIC	195	_	13	_	4	2	19	4	34	6	108
New York City	12	-	6	-	1	1	9	-	-	-	-
New York, Up-State.	161	-	3	-	3	-	5	-	5	6	101
New Jersey Pennsylvania	NN 22	-	2 2	-	-	1 -	1 4	3 1	20	-	7
EAST NORTH CENTRAL	258	1	12	-	7	-	20	1	1	3	154
Ohio	59	-	1	-	-	-	7	-	-	-	44
Illinois	72 41	_	7	_	1 2	_	9	1	1	_	42 26
Michigan	49	1	4	-	_	-	4	_	-	-	5
Wisconsin	37	-	- [-	4	-	-	-	-	3	37
WEST NORTH CENTRAL	171	1	7	1	12	-	8	-	8	7	432
Minnesota Iowa	5 33	-	2	_	_	_	3	-	7	3	112 62
Missouri	4	_	1	1	8	_	3	_		1	111
North Dakota	62	-		-	-	-	-	-	-	- !	55
South Dakota	4	-	-	-	<u>-</u>	-	-	-	1	1	24 11
Nebraska Kansas	5 58	1	4	_	1 3	_	1	_	-	2	57
SOUTH ATLANTIC	455	-	18	_	20	_	30	5	187	15	590
Delaware	3	-	-	-	-	-	2	-	3	-	-
Maryland Dist. of Columbia	45 —	_	1 2	_	_	_	4	1 1	41	_	1
Virginia	95		_	_	4	_		2	56	7	304
West Virginia	125	-	1	-	2	-	1	-	5	3	90
North Carolina South Carolina	NN	-	2	-	5 2	-	6 2	_ 1	45	-	4
Georgia	38 5	_	2	_	3	_	7		24 12	3	57
Florida	144	-	9	-	4	-	7	-	-	2	134
EAST SOUTH CENTRAL	981	-	15	-	9	3	20	3	40	2	337
Kentucky Tennessee	69	_	6	-	- 8	1 2	3 14	1 2	6	2	178 114
Alabama	670 103	_	4	_		_	1 14		33	_	42
Mississippi	139	-	1	-	1	-	2	-	-	-	3
WEST SOUTH CENTRAL	478	1	17	1	16	_	22	3	36	9	321
Arkansas Louisiana	-	-	1 6	-	1 4	_	10	_	6	3	24 26
Oklahoma	4	_	1	_	6	_	1	_	23	_	46
Texas	473	1	9	1	5	-	9	3	7	6	225
MOUNTAIN	907	1	3	-	8	-	22	-	14	5	104
MontanaIdaho	26	-	1	-	-	-	-	_	4	-	_
Wyoming	111 5	_	_	_	2	_	3 5	_	4	_	50
Colorado	435	1	2	-	-	_	3	-	8	-	3
New Mexico	178	-	- 1	-	1	-	5	-	-	2	13
Arizona Utah	76 76	_	_	_	- 5	_	5	_	2	1	22
Nevada	-	_	_	-	-	_	1	-	-	2	12
PACIFIC	332	1	7	-	-	-	30	-	5	5	238
Washington	169	-	1	-	-	-	1	-	3	-	3
Oregon	65	1	6	_	_	_	23		2	1 4	232
Alaska	24		_	_	_		-	_	_	-	-
Hawaii	74	-						-	-		-
Puerto Rico	_	_	4	_	_	1	6	_	_	2	20
*Delayed reports: SST			•					•	•		

^{*}Delayed reports: SST: Me. 3, S.C. 19

Week No.

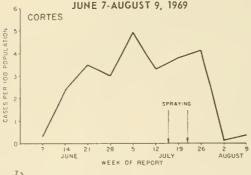
TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED AUGUST 16, 1969

33

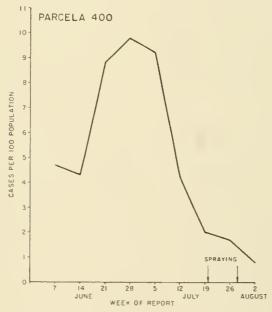
(By place of occurrence and week of filing certificate. Excludes fetal deaths)

					ing ceretificate. Excludes i				
	All Causes		Pneumonia	Under		All Ca	uses	Pneumonia	Under
Area	A11	65 years	and	1 year	Area	rea All 65 years		and	1 year
	Ages	and over	Influenza	A11		Ages	and over	Influenza	All
			All Ages	Causes				All Ages	Causes
WELL PACTANDA	671	397	35	33	SOUTH ATLANTIC:	1,167	571	41	61
NEW ENGLAND: Boston, Mass	218	118	7	9	Atlanta, Ga	119	54	3	12
Bridgeport, Conn	42	29	2	1	Baltimore, Md	245	110	4	12
Cambridge, Mass	21	11	6	-	Charlotte, N. C	38	14	1	1
Fall River, Mass	17	13	-	-	Jacksonville, Fla	100	38	-	9
Hartford, Conn	41	20	3 1	5 1	Miami, Fla	102 53	60 27	- 5	3 3
Lowell, Mass	27 22	21 15	1		Norfolk, Va	78	34	5	6
Lynn, Mass	26	20	i	1	Richmond, Va Savannah, Ga	29	9	2	1 1
New Bedford, Mass New Haven, Conn	56	29	2	6	St. Petersburg, Fla	109	86	6	3
Providence, R. I	61	33	4	4	Tampa, Fla	72	45	6	3
Somerville, Mass	5	5	- -	- 1	Washington, D. C	182	8U	7	6
Springfield, Mass	49	27	4	3	Wilmington, Del	40	14	2	2
Waterbury, Conn	25	16	- 4	2		657	351	31	42
Worcester, Mass	61	40	4	·	EAST SOUTH CENTRAL: Birmingham, Ala	116	54	2	7
MIDDLE ATLANTIC:	3,160	1,815	103	158	Chattanooga, Tenn	55	23	5	10
Albany, N. Y	55	30	_	-	Knoxville, Tenn	45	32	4	1
Allentown, Pa	36	26	2	2	Louisville, Ky	130	76	13	7
Buffalo, N. Y	104	72	-	3	Memphis, Tenn	135	58	1	10
Camden, N. J	51	29	1	3	Mobile, Ala	58	34	1 4	3
Elizabeth, N. J	36 34	21 22	_	3 2	Montgomery, Ala	30 88	23 51	1 4	4
Erie, Pa	57	33	9	5	Nashville, Tenn	- 00)		1 1
Newark, N. J	76	34	2	2	WEST SOUTH CENTRAL:	1,130	584	32	66
New York City, N. Y	1,617	927	61	74	Austin, Tex	35	20	4	2
Paterson, N. J	27	9	-	1	Baton Rouge, La	64	29	2	3
Philadelphia, Pa	502	269	7	22	Corpus Christi, Tex	37	14	1	1 1
Pittsburgh, Pa	147	73	4	13	Dallas, Tex	162	74	3	14
Reading, Pa	43 115	27 74	2	4 8	El Paso, Tex	48 81	26 39	6	9
Rochester, N. Y	32	17	3	3	Fort Worth, Tex Houston, Tex	23U	113	4	15
Schenectady, N. Y Scranton, Pa	38	20	_	1	Little Rock, Ark	52	34	4	2
Syracuse, N. Y	94	59	3	8	New Orleans, La	141	78	2	1 1
Trenton, N. J	35	24	2	3	Oklahoma City, Okla	88	45	-	6
Utica, N. Y	32	25	3		San Antonio, Tex	101	55	1	2
Yonkers, N. Y	29	24		1	Shreveport, La	43	27	1 3	2
ELGE NORTH CENTELL.	2,443	1,392	63	104	Tulsa, Okla	48	30	1	-
EAST NORTH CENTRAL: Akron, Ohio	47	28	1	-	MOUNTAIN:	471	27U	19	20
Canton, Ohio	43	31	_	3	Albuquerque, N. Mex	43	21	3	4
Chicago, Ill	660	363	21	21	Colorado Springs, Colo.	32	17	5	3
Cincinnati, Ohio	157	92	-	8	Denver, Colo	129	76	4	2
Cleveland, Ohio	181	97	2	9	Ogden, Utah	15	7	_	2
Columbus, Ohio	121	64	_	5	Phoenix, Ariz	116	10	3	3 -
Dayton, Ohio	93 344	49 205	3 8	4 19	Pueblo, Colo Salt Lake City, Utah	57	38	1	3
Detroit, Mich Evansville, Ind	61	36	2	1	Tucson, Ariz	68	37	2	3
Flint, Mich		24	8	5					
Fort Wayne, Ind		25	2	2	PACIFIC:	1,563	932	40	62
Gary, Ind	22	7	4	2	Berkeley, Calif	21	17	1	-
Grand Rapids, Mich		24	2	2	Fresno, Calif	51	35	-	-
Indianapolis, Ind	2.2	82	1 /	8	Glendale, Calif	22 37	17 19	3	3
Madison, Wis	33 139	21 88	1	1	Honolulu, Hawaii Long Beach, Calif	107	66	1	2
Milwaukee, Wis Peoria, Ill	30	20		1	Los Angeles, Calif	455	281	8	19
Rockford, Ill	33	18	2		Oakland, Calif	105	45	1	8
South Bend, Ind	43	20	1	3	Pasadena, Calif	46	31	2	1 1
Toledo, Ohio	100	64	1	7	Portland, Oreg	126	77	2	4
Youngstown, Ohio	54	34	-	3	Sacramento, Calif	63	36	1 5	3 8
	005	/72	2.7	E /.	San Diego, Calif		62 90	5	8 4
WEST NORTH CENTRAL:	805 43	473	32	54	San Francisco, Calif San Jose, Calif	43	27	8	_
Des Moines, Iowa Duluth, Minn		12	6	i	Seattle, Wash	133	77	3	8
Kansas City, Kans	1	27	6	7	Spokane, Wash	59	39	_	2
Kansas City, Mo	1	76	1	10	Tacoma, Wash	20	13	-	-
Lincoln, Nebr		21	1	1				-	/11
Minneapolis, Minn	102	59	4	9	Total	12,067	6,785	396	600
Omaha, Nebr		37	2	7	C	mulative T	otals		
St. Louis, Mo		135	9 2	12	including report			revious w	eeks
St. Paul, Minn Wichita, Kans	74 52	33		2					
Tenra, Rans.					All Causes, All Ages			435,	
					All Causes, Age 65 and	over		250,	
					Pneumonia and Influenza	, All Ages		41,	
					All Causes, Under 1 Yea	r of Age			

Figure 1 DENGUE-LIKE ILLNESS IN RELATION TO AERIAL SPRAYING - PUERTO RICO JUNE 7-AUGUST 9, 1969









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ATLANTA, GEORGIA 30333

NDTE: THE OATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCOC BY THE INDIVIOUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES AT CLOSE OF BUSINESS ON FRIDAY; COMPILEO DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEEDING FRIDAY.

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